In the Claims

1. (Currently Amended) A method for <u>descreening a digital image</u> ~~designing filters that approximates the circularly symmetric frequency response achievable using a non-separable filter~~ comprising:

(a) selecting a cut-off frequency and designing therefrom a one-dimensional separable low pass filter (LP), <u>one-dimensional separable low pass filter LP being a row vector having entries</u> [X_{-n}, $X_{-(n-1)}$, ... X_0, ... X_{n-1}, X_n];

(b) obtaining a two-dimensional <u>separable</u> filter <u>(LPP)</u> by performing the operation: LP* X LP, LP* being a column vector having the same entries as <u>one-dimensional separable low pass filter LP, two-dimensional separable filter LPP having</u> dimensions given by: {2n+1, 2n+1};

(c) generating a two-dimensional contour plot for the two-dimensional filter LPP;

(d) designing a one-dimensional separable high pass filter (HP), <u>one-dimensional separable high pass filter HP being a row vector having entries</u> [Y_{-m}, $Y_{-(m-1)}$, ... Y_0, ... Y_{m-1}, Y_m];

(e) obtaining a two-dimensional <u>separable</u> filter <u>(HPP)</u> by performing the operation: HP* X HP, HP* being a column vector having the same entries as <u>one-dimensional separable high pass filter HP, two-dimensional separable filter HPP having</u> dimensions: {2m+1, 2m+1};

(f) generating a two-dimensional contour plot for the two-dimensional filter HPP;

(g) generating a two-dimensional filter (ONE) when the two-dimensional contour plot for the two-dimensional separable filter LPP overlaps the two-dimensional contour plot for the two-dimensional separable filter HPP, <u>two-dimensional filter</u> ONE having the same dimensions of <u>two-dimensional separable filter</u> HPP with the only non-zero entry of value 1 being located at the center of <u>two-dimensional filter</u> ONE;

(h) subtracting <u>two-dimensional separable filter</u> HPP from <u>two-dimensional filter</u> ONE to create matrix <u>(HPPinv)</u>;

(i~~h~~) convolving <u>two-dimensional separable filter</u> LPP with <u>matrix</u> HPPinv to obtain <u>non-separable filter</u> DSCRN having dimensions: {2m+2n+1, 2m+2n+1};

(j~~i~~) generating a two-dimensional contour plot for <u>non-separable filter</u> DSCRN; ~~and~~

(k~j~) selecting two-dimensional separable filter LLP and two-dimensional separable filter HHP ~constructing a filter to eliminate moiré in a rendered image~ when the two-dimensional contour plot for non-separable filter DSCRN is an approximation to a desired circular symmetry~, the filter being constructed of LLP and HHP~;

(l) repeating (a)-(j) when the two-dimensional contour plot for non-separable filter DSCRN is not an approximation to a desired circular symmetry;

(m) electronically applying the selected two-dimensional separable filter LLP to a digital image to produce a first filtered image;

(n) electronically applying the selected two-dimensional separable filter HHP to a digital image to produce a second filtered image; and

(o) subtracting the second filtered image from the first filtered image to generate a descreened digital image.

Claims 2-6 (Cancelled)